

**What is claimed is:**

1. A process for providing a stable crystalline form of a fine-milled salbutamol sulfate, which can be produced, stored and used while maintaining the aerodynamic properties required for inhalation thereof, which comprises the steps of
  - a) micronizing by any conventional method salbutamol sulfate into a particle size required for inhalation, more than 90 % of the particle size distribution being less than 4.6  $\mu\text{m}$ ;
  - b) conditioning said salbutamol sulfate by treatment with a water-containing vapor phase at a temperature from 20 to 50 °C and a relative humidity from 45 to 80 %; and
  - c) drying the substance.
2. The process according to claim 1 wherein the conditioning, in the case of a substance mixture, may be performed in a one-step procedure or a multi-step procedure using different relative humidity/temperature combinations.
3. The process according to claim 1 wherein step b) is carried out at a temperature from 25 to 40 °C and at a relative humidity from 45 to 75 %.

4. The process according to claim 1 wherein salbutamol sulfate obtained in step a) has the following particle size distribution:

Amount [ % ]	Particle size [ $\mu\text{m}$ ]
10	< 0.70
50	< 1.53
90	< 3.42

5. The process according to claim 1 wherein salbutamol sulfate obtained in step b) has the following particle size distribution:

Amount [ % ]	Particle size [ $\mu\text{m}$ ]
10	< 0.75 to < 0.85
50	< 1.66 to < 1.80
90	< 3.55 to < 3.75

6. The process according to claim 1 wherein the conditioning step b) is carried out for at least 1 hour.

7. Crystalline salbutamol sulfate produced by the process of claim 1.